

0.a. Goal

Goal 11: Make cities and human settlements inclusive, safe, resilient and sustainable

0.b. Target

Target 11.1: By 2030, ensure access for all to adequate, safe and affordable housing and basic services and upgrade slums

0.c. Indicator

Indicator 11.1.1: Proportion of urban population living in slums, informal settlements or inadequate housing

0.e. Metadata update

2021-12-20

0.f. Related indicators

Direct relation

1.1.1 Poverty rate; 1.1.2 Poverty rate, national; 6.1.1 Access to Improved Water; 6.2.1 Access to Improved Sanitation; 7.1.1 Access to Electricity; 8.3.1 Informal Employment; 8.5.2 Unemployment Rate

8.6.1 Youth Unemployment; 10.2.1 Population below Median Income; 10.1.1 Growth rates of the poorest 40%; 11.2.1 Public Transit Stop Coverage; 11.5.1 Population Affected by Hazardous Events; 11.6.1 Solid Waste Collection; 11.7.1 Accessibility to Open Public Area; 11.7.2 Public Space Safety for Women; 16.1.1 Homicide rate; 16.1.3 Population subjected to Violence.

0.g. International organisations(s) responsible for global monitoring

United Nations Human Settlements Programme (UN-Habitat)

1.a. Organisation

United Nations Human Settlements Programme (UN-Habitat)

2.a. Definition and concepts

The nature of the housing sector with its institutions, laws and regulations, is one that touches every single aspect of the economy of a country and has interface with practically every social development sector. People living in adequate homes have better health, higher chances to improve their human capital and seize the opportunities available in urban contexts. At the same time, a housing sector that performs well acts as a 'development multiplier' benefiting complementary industries, contributing to economic development, employment generation, service provision and overall poverty reduction.

Broadly, for every job in the house-building sector, an additional 1.5 to 2 jobs are generally created in the construction materials and other input industries. The contributions of housing to urban prosperity are also evident. The UN-Habitat City Prosperity Initiative reveals indicators that inadequate housing has negative effects on several other dimensions of urban prosperity. Urban contexts with housing conditions below average experience poorer equity and inclusion, reduced urban safety and livelihood opportunities, and have neglected connectivity and provision of public space.

Inadequate housing thus remains a global urban sustainability challenge, but also development opportunity. At the same time, the thematic area of 'adequate housing' and especially the term 'slums' - are often highly politicized. More nuanced definitions of these terms would enable and support a more robust and measured debate, greater engagement by all key stakeholders and the development of specific recommendations for application within each context and place.

There are a number of interrelated terms that must be grappled with when considering an indicator for the SDG Target 11.1. They include inadequate housing and housing affordability, informal settlements and slums.

Housing affordability

One of the most daunting challenges of urbanization globally has been the provision of adequate housing that people can afford. Findings from the UN Global Sample of Cities^[1] show that people across all types of urban centres are not able to afford home ownership or even the cost of rental housing. In low-income countries for example, households need to save the equivalent of nearly eight times their annual household income in order to be able to afford the price of a standard house in their town or city. If they rent, households have to commit more than 25 per cent of their monthly income to rent payments.^[2]

The affordability issue is affecting the developing and developed worlds alike. In Latin America, high house price-to-income ratio and inaccessible housing finance compel households to resort to informal solutions without the benefits of planning and safety regulations. In many parts of Sub-Saharan Africa, less than 10 per cent of households are able to afford a mortgage for even the cheapest newly built house. In fact, African households face 55 per cent higher housing costs relative to their per capita GDP than in other regions.^[3] In many European countries, families, especially the youth, are severely cost burdened and have much less to spend on other necessities such as food, health, transport and clothing. In extreme circumstances, households are forced to leave their accommodation because of the inability to pay. The current migration crisis has worsened housing conditions in the region, a trend that seems set to continue in the next few years.

Inadequate housing, informal settlements and slums

Today, an estimated 1.6 billion people live in inadequate housing globally, of which 1 billion live in slums and informal settlements^[4]. This means that about one in four people in cities live in conditions that harm their health, safety, prosperity and opportunities. Lack of access to basic services is a common constraint in informal settlements and slums: worldwide 2.4 billion people live without improved sanitation and 2 billion are affected by water stress. In spite of a decrease from 39 to 30 per cent of urban population living in slums between 2000 and 2014, absolute numbers continue to grow: currently, one quarter of the world's urban population is estimated to live in slums, 881 million urban residents as opposed to 792 million in 2000. Young women- and children-headed households are often the most vulnerable to inadequate housing conditions.

Homelessness is also a growing challenge and it is estimated that more than 100 million people worldwide are homeless.^[5]

Slums represent one of the most extreme forms of deprivation and exclusion and remain a critical factor for the persistence of poverty and exclusion in the world – indeed a challenge for sustainable and inclusive urbanization. Research shows that other forms of urban poverty in the form of informal settlements increasingly become a worldwide phenomenon found also in the developed world.

At the same time, not all people who live in inadequate housing live in slums but are nonetheless living in very substandard conditions in the urban contexts in which they are situated. The nature of these unsatisfactory living conditions must be captured and better represented in the global, country and city-level data to ensure a more robust picture of inadequate housing is documented. In light of this, the following definitions are proposed.

Definition and concept:

As per the 2030 Agenda, it is necessary to identify and quantify the proportion of the population that live in **slums, informal settlements** and those living in **inadequate housing** in order to inform the development of the appropriate policies and programmes for ensuring access for all to adequate housing and the upgrading of slums.

a. Slums – An expert group meeting was convened in 2002 by UN-Habitat, the United Nations Statistics Division and the Cities Alliance to agree on an operational definition for slums to be used for measuring the indicator of MDG 7 Target 7.D. The agreed definition classified a ‘*slum household*’ as one in which the inhabitants suffer one or more of the following ‘*household deprivations*’:

1. Lack of access to improved water source,
2. Lack of access to improved sanitation facilities,
3. Lack of sufficient living area,
4. Lack of housing durability and,
5. Lack of security of tenure.

By extension, the term ‘*slum dweller*’ refers to a person living in a household that lacks any of the above attributes.^[6]

These five components –all derived from the adequate housing’s definition have been used ever since for reporting and tracking of the MDGs, as the primary or secondary data measured to determine the number of slum dwellers living in developing countries. They were also the basis to establish the successful achievement of MDG Target 7.D. For each component, the experts agreed with the following sub-definitions:^[7]

1) Access to improved water – A household is considered to have access to improved drinking water if the household members use a facility that is protected from outside contamination, in particular from faecal matters’ contamination. Improved drinking water sources include: piped water into dwelling, plot or yard; public tap/stand pipe serving no more than 5 households; protected spring; rainwater collection; bottled water (if secondary source is also improved); bore hole/tube well; and, protected dug well.

2) Access to improved sanitation – A household is considered to have access to improved sanitation if household members have access to a facility with an excreta disposal system that hygienically separates human waste from human contact. Improved facilities include: flush/pour-flush toilets or latrines connected to a sewer, septic tank or pit; ventilated improved pit latrine; pit latrine with a slab or platform, which covers the pit entirely; and, composting toilets/latrines.

3) Sufficient living area /overcrowding– A dwelling unit provides sufficient living area for the household members if not more than three people share the same habitable room.^[8] Additional indicators of overcrowding have been proposed: area-level indicators such as average in-house living area per person or the number of households per area. Additionally, housing-unit level indicators such as the number of persons per bed or the number of children under five per room may also be viable. However, the number of persons per room has been shown to correlate with adverse health risks and is more commonly collected through household survey.^[9] UN-Habitat believes that the definition as it stands does not reflect the practical experience of overcrowding and as noted below, is proposing an alternative.

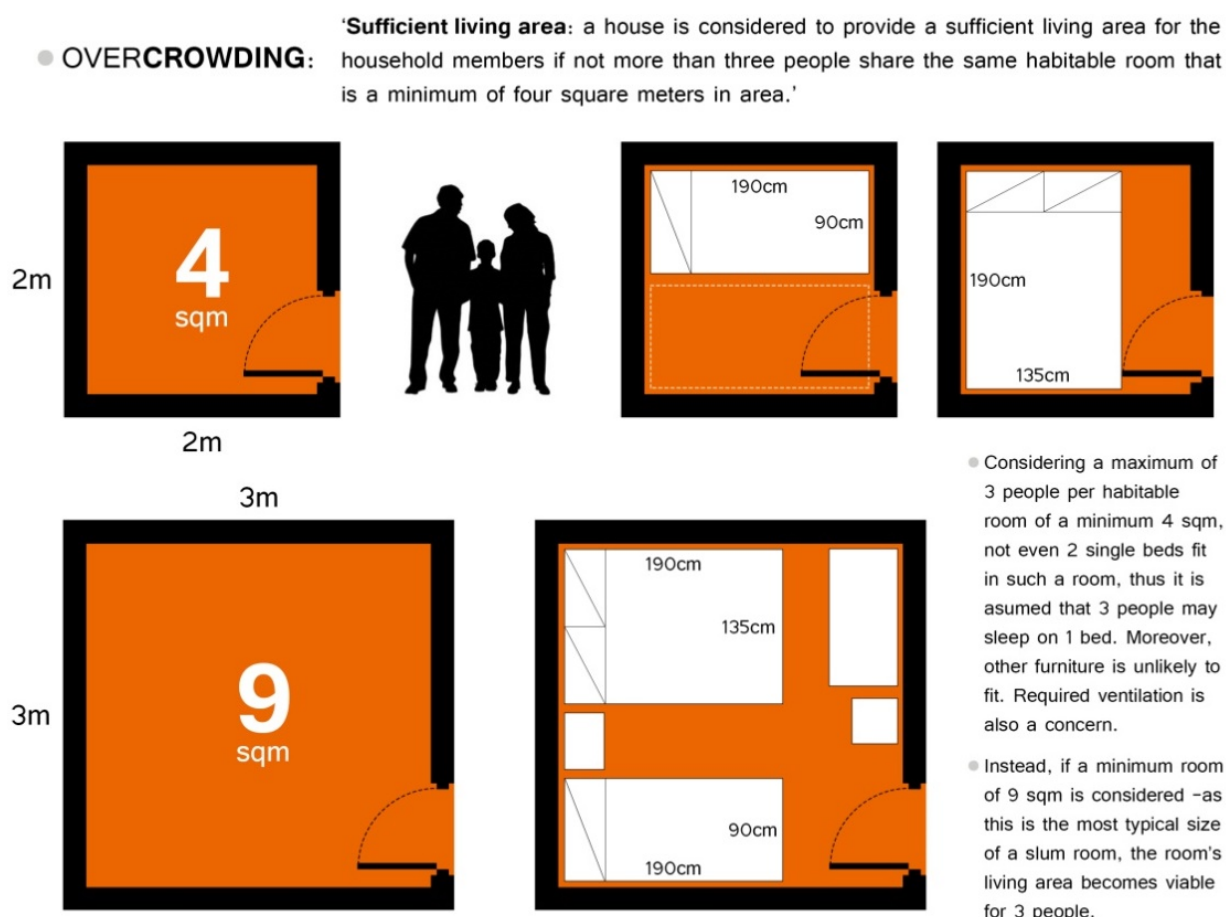


Figure 1- Example of Overcrowding

4) Structural quality/durability of dwellings – A house is considered as 'durable' if it is built on a non-hazardous location and has a permanent and adequate structure able to protect its inhabitants from the extremes of climatic conditions such as rain, heat, cold, and humidity. The following criteria are used to determine the structural quality/durability of dwellings: permanency of structure (permanent building material for the walls, roof and floor; compliance with building codes; the dwelling is not in a dilapidated state; the dwelling is not in need of major repair); and location of house (hazardous location; the dwelling is not located on or near toxic waste; the dwelling is not located in a flood plain; the dwelling is not located on a steep slope; the dwelling is not located in a dangerous right of way: rail, highway, airport, power lines).

5) Security of tenure – Secure tenure is the right of all individuals and groups to effective protection by the State against forced evictions. Security of tenure is understood as a set of relationships with respect to housing and land, established through statutory or customary law or informal or hybrid arrangements, that enables one to live in one's home with security, peace and dignity (A/HRC/25/54). Regardless of the type of tenure, all persons with security of tenure have a legal status against arbitrary unlawful eviction, harassment and other threats. People have secure tenure when: there is evidence of documentation that can be used as proof of secure tenure status; and, there is either de facto or perceived protection from forced evictions. Important progress has been made to integrate the measurement of this component into the computation of the people living in slums.

b. Informal Settlements – Informal settlements are usually seen as synonymous of slums, with a particular focus on the formal status of land, structure and services. They are defined by three main criteria, according to Habitat III Issue Paper #22^[10], which are already covered in the definition of slums. These are:

1. Inhabitants have no security of tenure vis-à-vis the land or dwellings they inhabit, with modalities ranging from squatting to informal rental housing,
2. The neighbourhoods usually lack, or are cut off from, formal basic services and city infrastructure, and
3. The housing may not comply with current planning and building regulations, is often situated in geographically and environmentally hazardous areas, and may lack a municipal permit.

Informal settlements can be occupied by all income levels of urban residents, affluent and poor.

Inadequate Housing

c. Inadequate Housing – Article 25 of the Universal Declaration of Human Rights includes housing as one of the components of the right to adequate standards of living for all.^[11] The United Nations Committee on Economic, Social and Cultural Rights' general comments No.4 (1991) on the right to adequate housing and No.7 (1997) on forced evictions have underlined that the right to adequate housing should be seen as the right to live somewhere in security, peace and dignity. For housing to be adequate, it must provide more than four walls and a roof, and at a minimum, meet the following criteria:

1. Legal security of tenure, which guarantees legal protection against forced evictions, harassment and other threats;
2. Availability of services, materials, facilities and infrastructure, including safe drinking water, adequate sanitation, energy for cooking, heating, lighting, food storage or refuse disposal;
3. Affordability, as housing is not adequate if its cost threatens or compromises the occupants' enjoyment of other human rights;
4. Habitability, as housing is not adequate if it does not guarantee physical safety or provide adequate space, as well as protection against the cold, damp, heat, rain, wind, other threats to health and structural hazards;
5. Accessibility, as housing is not adequate if the specific needs of disadvantaged and marginalized groups are not taken into account (such as the poor, people facing discrimination; persons with disabilities, victims of natural disasters);
6. Location, as housing is not adequate if it is cut off from employment opportunities, health-care services, schools, childcare centres and other social facilities, or if located in dangerous or polluted sites or in immediate proximity to pollution sources; and
7. Cultural adequacy, as housing is not adequate if it does not respect and take into account the expression of cultural identity and ways of life.

Table 1. Criteria defining slums, informal settlements and inadequate housing			
	Slums	Informal Settlements	Inadequate Housing
access to water	X	X	X
access to sanitation	X	X	X
sufficient living area, overcrowding	X		X
structural quality, durability and location	X	X	X
security of tenure	X	X	X
affordability			X

accessibility			X
cultural adequacy			X

¹ UN-Habitat (2016). Fundamentals of Urbanization. Evidence Base for Policy Making. Nairobi: UN-Habitat [↑](#)

² Ibid [↑](#)

³ World Bank, 2017. Africa's Cities: Opening Doors to the World. [↑](#)

⁴ UN-Habitat (2016). World Cities Report. UN-Habitat (2005). Financing Shelter. [↑](#)

⁵ UN-HABITAT (2005). Financing Urban Shelter: Global Report on Human Settlements 2005. Nairobi: UN-Habitat [↑](#)

⁶ UN-Habitat (2003), Slums of the World: The face of urban poverty in the new millennium; <mirror.unhabitat.org/pmss/getElectronicVersion.aspx?nr=1124&alt=1> [↑](#)

⁷ United Nations (2007), Indicators of Sustainable Development: Guidelines and Methodologies. Third Edition, United Nations, New York; <https://sustainabledevelopment.un.org/index.php?page=view&type=400&nr=107&>; UN-Habitat (2003), Slums of the World: The face of urban poverty in the new millennium. [↑](#)

⁸ The original EGM's advice considered a range of less than three to four people per habitable room. When this indicator got operationalized during the MDG 7 Target 7.D's tracking, overcrowding was fixed at a maximum of three people per habitable room ('minimum of four square meters,' <http://mdgs.un.org/unsd/mdg/Metadata.aspx>). [↑](#)

⁹ UN-Habitat (1998), Crowding and Health in Low Income Settlements of Guinea Bissau, SIEP Occasional Series No.1. [↑](#)

¹⁰ United Nations (2015), Conference on Housing and Sustainable Urban Development – Habitat III, Issue Paper No. 22 on Informal Settlements; UN-Habitat (2015), Slum Almanac 2015-2016. [↑](#)

¹¹ Article 25 (1) "Everyone has the right to a standard of living adequate for the health and well-being of himself and of his family, including food, clothing, housing and medical care and necessary social services, and the right to security in the event of unemployment, sickness, disability, widowhood, old age or other lack of livelihood in circumstances beyond his control." [↑](#)

2.b. Unit of measure

Proportion (percentage)

3.a. Data sources

Data for the slum/informal settlements components of the indicator can be computed from Census and national household surveys, including DHS and MICS. Data for the inadequate housing component can be computed through income and household surveys that capture housing expenditures.

As per all the agreed Agenda 2030's goals and targets, to measure the achievement of this indicator will require the mobilisation of means required to efficiently monitor them, calling for revitalised partnerships with the participation of all countries, all stakeholders and all communities concerned.

For primary reporting, national data providers (especially the Statistical agencies) will play an important role generating the primary data through census and surveys. Regional and global estimates will be derived from national figures with appropriate disaggregation. Specialized tools will be developed and agreed upon with local and international stakeholders. Quality assurance on the use of the tools, analysis and reporting will be deployed regionally and globally, to ensure that standards are uniform and that definitions are universally applied.

3.b. Data collection method

The computation of this indicator is mainly based on analysis of existing data sources including population and housing censuses and household surveys that contain information on all five components of slum: improved water, improved sanitation, durable housing, sufficient living area and secure tenure. Nationally representative household surveys, which typically collect information on water, sanitation and housing conditions, include Urban Inequities Surveys (UIS), Multiple Indicator Cluster Surveys (MICS), Demographic Health Surveys (DHS), World Health Surveys (WHS), Living Standards and Measurement Surveys (LSMS), Core Welfare Indicator Questionnaires (CWIQ), and other relevant surveys. National-level

household surveys are generally conducted every 3-5 years in most developing countries, while censuses are generally conducted every 10 years. At the Global level, data will be assembled and compiled for international use and comparison by UN-Habitat and other partners.

3.c. Data collection calendar

All major surveys and census data collection process will continue to incorporate the aspects/components necessary for reporting on this indicator. The monitoring of this indicator will be repeated at regular intervals of 3-5 years, allowing for 3 five-year reporting points until the year 2030.

UN-Habitat has developed simple reporting template to collect data from countries (<https://data.unhabitat.org/pages/guidance>). The template, which is sent to countries on an annual basis is expected to be used until 2030, but slight changes may be effected as data on more aspects becomes available.

3.d. Data release calendar

While continuous follow-up is done with countries and compilation of data sources occur on an annual basis, changes in trends within individual countries are likely to happen in spans of about 3-5 years, so a three-year window will be applied for comprehensive review of all data, with updates made based on availability of new data.

3.e. Data providers

This indicator has largely been successfully due to the collaborations between several organizations and institutions including UN-Habitat, UNEP, Cities Alliance, Slum dwellers International, and World Bank. There are several other experts who have also contributed to the development of the concepts, rationale and definitions, and metadata and will also support measurement, reporting and policy dialogue at the country level, based on the indicators.

National Statistical Offices will play an important role in the monitoring and reporting process through census and surveys. Final Compilation & reporting at the global level will be lead and guided by UN-Habitat with support from selected partners.

3.f. Data compilers

UN-Habitat

3.g. Institutional mandate

The United Nations Human Settlements Programme (UN-Habitat) is the specialized agency for sustainable urbanization and human settlements in the United Nations. The mandate derives from the priorities established in relevant General Assembly resolutions and decisions, including General Assembly resolution 3327 (XXIX), by which the General Assembly established the United Nations Habitat and Human Settlements Foundation, and resolution 32/162 by which the Assembly established the United Nations Center for Human Settlements (Habitat). In 2001, by its Resolution 56/206, the General Assembly transformed the Habitat into the secretariat of the United Nations Human Settlements Programme (UN-Habitat), with a mandate to coordinate human settlements activities within the United Nations System. As such, UN-Habitat has been designated the overall coordinator of SDG 11 and specifically as a custodian agency for 9 of the 14 indicators under SDG 11 including indicator 11.1.1. UN-Habitat also supports the monitoring and reporting of 4 urban specific indicators in other goals.

4.a. Rationale

As seen in Table 1, most of the criteria for defining slums, informal settlements and inadequate housing overlap. The three criteria of informal settlements are essentially captured in the definition of slums, which sustains the combination of both (slums/informal settlements). Both aspects of slums and informal settlements are therefore combined into one component of the indicator, providing some continuity with what was captured under MDG 7. At a later stage, a composite index will be developed that will incorporate all measures (combining slum/informal settlements and inadequate housing) and provide one estimate.

The second component of the indicator is on inadequate housing. From the seven criteria of adequate housing, the three that are not covered by slums / informal settlements are *affordability*, *accessibility* and *cultural adequacy*. However, affordability is the most relevant and easier to measure.

In this regard, *housing affordability* is not only a key housing adequacy criterion, but is a suitable means of measuring inadequate housing in a more encompassing manner, as it remains a global challenge across different countries and income levels, with strong negative impact on urban inequality.

The underlying principle is that household financial costs associated with housing should not threaten or compromise the attainment and satisfaction of other basic needs such as, food, education, access to health care, transport, etc. Based on the existing method and data of UN-Habitat's Urban Indicators Program (1996-2006), unaffordability is currently measured as the net monthly expenditure on housing cost that exceeds 30% of the total monthly income of the household.

Table 2 details the proposed definition of Slum/Informal Settlements and Inadequate Housing as well as the respective measurements.

Table 2 – Definition and measurement criteria for slums, informal settlements and inadequate housing

Slums / Informal Settlements	<p>DEFINITION:</p> <p>As adopted in the MDG, slum households are households whose members suffer one or more of the following 'household deprivations': 1) Lack of access to improved water source, 2) Lack of access to improved sanitation facilities, 3) Lack of sufficient living area, 4) Lack of housing durability and, 5) Lack of security of tenure.</p>	<p>MEASUREMENT^[12]:</p> <p><i>Security of Tenure:</i></p> <ul style="list-style-type: none"> • Proportion of households with formal title deeds to both land and residence. • Proportion of households with formal title deeds to either one of land or residence. • Proportion of households with agreements or any document as a proof of a tenure arrangement. <p><i>Access to improved water sources:</i></p> <ul style="list-style-type: none"> • Proportion of households whose members have access to improved drinking water sources (i.e. piped in water into dwelling, plot or yard; public tap/stand pipe service; protected spring; rain water collection; bottled water if secondary source is also improved; bore hole/tube well; and protected dug well). <p><i>Access to improved sanitation facilities:</i></p> <ul style="list-style-type: none"> • Proportion of households whose members have access to improved sanitation facilities (i.e. pour-flush toilets or latrines connected to a sewer, septic tank or pit; ventilated improved pit latrine; pit latrine with a slab or platform that covers the pit entirely; composting toilets/latrines). <p><i>Structural quality of Housing and location:</i></p> <ul style="list-style-type: none"> • Proportion of households residing on or near a hazardous site. The following locations should be considered: <ul style="list-style-type: none"> ◦ housing in geologically hazardous zones (landslide/earthquake and flood areas); ◦ housing on or under garbage mountains; ◦ housing around high-industrial pollution areas; ◦ housing around other unprotected high-risk zones (e.g. railroads, airports, energy transmission lines). <p><i>Structural quality of the housing and permanency of the structure:</i></p> <ul style="list-style-type: none"> • Proportion of households living in temporary and/or dilapidated structures.
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		<p>The following factors should be considered when placing a housing unit in these categories:</p> <ul style="list-style-type: none"> ◦ quality of construction (e.g. materials used for wall, floor and roof); ◦ compliance with local building codes, standards and bylaws. <p><i>Sufficient living area:</i></p> <ul style="list-style-type: none"> • Proportion of households in which not more than three people share the same habitable room.
Inadequate housing	<p>DEFINITION:</p> <p>Proposed to complement the slums/informal settlements measuring affordability of housing at the global level. A housing is considered inadequate if it is not affordable to the household, i.e. the net monthly expenditure on its cost exceeds 30% of the total monthly income of the household.</p>	<p>MEASUREMENT:</p> <p><i>Inadequate housing:</i></p> <ul style="list-style-type: none"> • Proportion of households with net monthly expenditure on housing exceeding 30% of the total monthly income of the household^[13].

¹² Measurements based on those in the (2003) UN-Habitat Challenge of Slums, p.12. [↑](#)

¹³ To note, housing affordability can also be measured using house price-to-income ratio (HPIR) and the house rent-to-income ratio (HRIR). Housing is considered affordable when the house-price-to-annual household income ratio (HPIR) is 3.0 or less and the rent-to-monthly household income ratio (RIR) is 25% or less. [↑](#)

4.b. Comment and limitations

As with all indicators, there are some potential challenges and limitations. Some of these are outlined below.

- Difficulties to agree universally on some definitions and characteristics when referring to deteriorated housing conditions, often due to political or economic considerations.
- Lack of appropriate tools at national and city levels to measure all components required by Indicator 11.1.1, sometimes resulting in the underestimation of deteriorated housing units.
- The complicated relation between security of tenure with land and property makes it a difficult, but vital, aspect to include in the different surveys, and thus, to measure and monitor.
- Indicator 11.1.1 does not capture homelessness.
- Many countries still have limited capacities for data collection, management and analysis, their update and monitoring. These are key to ensure national and global data consistency.

4.c. Method of computation

The indicator considers two components to be computed as follows:

1. Percentage of people living in Slum/Informal Settlements households (SISH):

$$= 100 \left[\frac{\text{Number of people living in SISH}}{\text{Urban/City population}} \right]$$

1. Percentage of people living in Inadequate housing households (IHH):

$$= 100 \left[\frac{\text{Number of people living in IHH}}{\text{Urban/City population}} \right]$$

The unit of measurements for all these indicators will be %. Currently, the data for this indicator is already being reported in nearly all developing countries on what refers to slums and informal settlements, and in some countries for what refers to

expenditure on housing (for inadequate housing). The SDG indicator 11.1.1 will therefore contribute to report on a broader spectrum of inadequate housing conditions affecting households in all countries.

4.d. Validation

As part of the validation process, UN-Habitat developed a template to compile data generated by countries through the National Statistics Offices as well as other government agencies responsible for official statistics (<https://data.unhabitat.org/pages/guidance>). Data compiled is then checked against several criteria including the data sources used, the application of internationally agreed definitions, classification and methodologies to the data from that source, etc. Once reviewed, appropriate feedback is then provided to individual countries for further discussion.

4.e. Adjustments

Any adjustment to the data is jointly agreed after consultations with the relevant national agencies that share the data points for reporting.

4.f. Treatment of missing values (i) at country level and (ii) at regional level

- **At country level**

All countries are expected to fully report on this indicator more consistently with few challenges where missing values will be reported at the national/global level. At the national level, it is possible that missing values will be recorded perhaps representing gaps of non-measurements among populations whose status of slum-hood or informality or inadequate housing is not recorded, unknown or where data is unavailable. Because the values will be aggregated at the national levels, missing values will be less observed at these levels, but are likely to affect the estimates. At the survey and data collection level, survey procedures for managing missing values will be applied based on the unit of analysis/ primary sampling units.

- **At regional and global levels**

Global estimates will be adjusted with modelling based on trends to cater for missing information or data.

Regional and global estimates for global monitoring

Regional and global estimates will be derived from national figures with an appropriate disaggregation level. Specialized tools will be developed and agreed upon with local and international stakeholders. Systems of quality assurance on the use of the tools, analysis and reporting will be deployed regionally, and global to ensure that standards are uniform and that definitions are universally applied.

We expect that investments in improved data collection and monitoring at country level will produce incentives for governments to improve reporting and performance and also greater readiness to engage with multiple stakeholders in data collection and analysis and in achieving better understanding of the strengths and weaknesses of existing slum definitions and their applications.

Sources of differences between global and national figures:

As national agencies are responsible for data collection, no differences between country produced data and international estimated data on the indicator are expected to arise if standard methodologies and procedures are followed at all stages of the reporting process. Missing data and other local variables and frequency of data collection usually affects the figures reported at the global and national level. For this indicator, national data will be used to derive global figures. In instances where global values differ from national figures, efforts will be made for harmonization.

4.g. Regional aggregations

Regional and global estimates will be derived from national figures using weighed averages. Weighting is done using urban population sizes from the World Urbanization Prospects. Global monitoring will be led by UN-Habitat with the support of other partners and regional commissions.

4.h. Methods and guidance available to countries for the compilation of the data at the national level

UN-Habitat has developed a step-by-step data compilation and computation methodological document, which is applicable at national level. The document is available here: https://unhabitat.org/sites/default/files/2020/06/indicator_11.1.1_training_module_adequate_housing_and_slum_upgrading.pdf. The agency also provides on-the-task training to countries on a need basis, as well as continuous technical support throughout the data compilation process to ensure alignment of national processes with the globally adopted methodology.

In addition, UN-Habitat has developed audio-visual content for indicator 11.1.1 that is available through its E-Learning Portal, offering more interactive learning for data producers at different levels. The content includes self-paced e-learning courses which present descriptive and practical step-by-step guidance on how to compute each indicator. These courses are aimed at strengthening national capacities in collecting, analyzing, and monitoring the urban SDG indicators. They are also designed to be attractive to different groups, from data producers to people just interested in understanding the indicators and their interpretation. This was intended to broaden the pool of experts on urban monitoring and increase the uptake and use of the tools within countries.

4.i. Quality management

To ensure consistency in data production across countries, UN-Habitat has developed detailed step-by-step tutorials on the computation of indicator 11.1.1, which further explain the steps presented in this metadata. The detailed tutorials, which will be continuously updated are available at <https://unhabitat.org/knowledge/data-and-analytics>, <https://www.urbanagendaplatform.org/learning>, and <https://data.unhabitat.org/>. Within its Data and Analytics Section which is responsible for the indicator data compilation, UN-Habitat has a team of data experts who check all submitted data and provide direct support to countries in the indicator computation.

4.j. Quality assurance

UN-Habitat maintains the global urban indicators database that is used for monitoring of the urban metrics drawn from SDGs, NUA, flagship reports (e.g. World Cities Report) and other official reporting. In general, for all new data, a thorough review is done to check for consistency and overall data quality by technical staff in the Data and Analytics unit before publication in the urban indicators database. This ensures that only the most accurate and reliable information are included in the database. Key elements considered in the review include: proper documentation of data sources; representativeness of data at national level, use of appropriate methodology for data collection and analysis (e.g. appropriate sampling process, values based on valid sample sizes), use of appropriate concepts and definitions, consistency of data trends with previously published/reported estimates for the indicator.

4.k. Quality assessment

Once data is received from member states, UN-Habitat uses a checklist specific to each indicator to assess a) whether the data production process followed the metadata provisions, and b) confirm the accuracy of the data sources used for the indicator computation. Both components are captured in the reporting template shared with National Statistical Offices, which helps to assess whether computation was done using the proposed indicator inputs or proxies. The reporting template also requests for information that helps understand whether national data for the indicator was produced from the appropriate data sources. In addition, the received data is also checked for other qualities such as data disaggregation, reporting period and consistency with other previously reported trends, which ensures reliable regional estimates.

5. Data availability and disaggregation

Data availability:

Data on slums is available for all developing countries, as it has been reported yearly by UN-Habitat in the MDGs' reports. Recently, UN-Habitat has disaggregated information on this indicator at city level, increasing its suitability for SDG 11. The people living in slums' indicator is currently measured in more than 320 cities across the world as part of UN-Habitat City Prosperity Initiative. UN-Habitat and World Bank computed this indicator for many years (1996-2006) as part of the Urban Indicators Programme. Data on inadequate housing, measured through housing affordability, is available for all OECD countries as well as in UN Global Sample of Cities covering 200 cities.

Data on inadequate housing, measured through housing affordability, is available in many countries. UN-Habitat and World Bank computed this indicator for many years (1996-2006) as part of the Urban Indicators Programme. Recently, the Global Housing Indicators Working Group, a collaborative effort of Cities Alliance, Habitat for Humanity International, the Inter-American Development Bank, UN-Habitat proposed the collection of data on this indicator worldwide.

Time series:

Available data cover the period 1990-2018. Because the efforts and capacity of collecting and analysing survey data are different for each country, the length of the time series for each country varies greatly.

Disaggregation:

Potential Disaggregation:

- Disaggregation by location (intra-urban)
- Disaggregation by income group
- Disaggregation by sex, race, ethnicity, religion, migration status (head of household)
- Disaggregation by age (household members)
- Disaggregation by disability status (household members)

Quantifiable Derivatives:

- Proportion of households with durable housing
- Proportion of households with improved water
- Proportion of households with improved sanitation
- Proportion of households with sufficient living space
- Proportion of households with security of tenure
- Proportion of households with one (1) housing deprivation
- Proportion of households with multiple (2 or more) housing deprivations
- Proportion of households with approved municipal permit
- Proportion of households with (in) adequate housing (affordability)

6. Comparability/deviation from international standards

As national agencies are responsible for data collection, no differences between country produced data and international estimated data on the indicator are expected to arise if standard methodologies and procedures are followed at all stages of the reporting process. Where such discrepancies exist, these will be resolved through planned technical meetings and capacity development workshops.

Missing data and other local variables and frequency of data collection usually affects the figures reported at the global and national level. For this indicator, national data will be used to derive global figures. In instances where global values differ from national figures, efforts will be made for harmonization. There are many instances where lack of new data will be replaced with modelled data for the global figures. These figures will be acceptable for reporting at the national and global levels with the relevant notes attached to such figures. This is likely to be the case for countries where they have long intervals of collection of new data, or where countries face unstable situations such post-disaster or post-war years.

7. References and Documentation

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